

INPUT SET: S9572.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
2

3 (1) General Information:

4
5 (i) APPLICANT: Eaton, Dan L.
6 de Sauvage, Frederic J.

7 (ii) TITLE OF INVENTION: MPL LIGAND

8 (iii) NUMBER OF SEQUENCES: 21

9 (iv) CORRESPONDENCE ADDRESS:

10 (A) ADDRESSEE: Genentech, Inc.
11 (B) STREET: 460 Point San Bruno Blvd
12 (C) CITY: South San Francisco
13 (D) STATE: California
14 (E) COUNTRY: USA
15 (F) ZIP: 94080

16 (v) COMPUTER READABLE FORM:

17 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
18 (B) COMPUTER: IBM PC compatible
19 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
20 (D) SOFTWARE: WinPatin (Genentech)

21 (vi) CURRENT APPLICATION DATA:

22 (A) APPLICATION NUMBER: 08/430035
23 (B) FILING DATE: 27-Apr-1995
24 (C) CLASSIFICATION:

25 (vii) PRIOR APPLICATION DATA:

26 (A) APPLICATION NUMBER: 08/196689
27 (B) FILING DATE: 15-FEB-1994

28 (vii) PRIOR APPLICATION DATA:

29 (A) APPLICATION NUMBER: 08/185607
30 (B) FILING DATE: 21-JAN-1994

31 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: 08/176553
33 (B) FILING DATE: 03-JAN-1994

34 (viii) ATTORNEY/AGENT INFORMATION:

35 (A) NAME: Winter, Daryl B.
36 (B) REGISTRATION NUMBER: 32,637
37 (C) REFERENCE/DOCKET NUMBER: P0871P2D2

--> DK

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/430,035DATE: 03/28/96
TIME: 11:48:18

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47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 415/225-1249
50 (B) TELEFAX: 415/952-9881
51 (C) TELEX: 910/371-7168
52
53 (2) INFORMATION FOR SEQ ID NO:1:
54
55 (i) SEQUENCE CHARACTERISTICS:
56 (A) LENGTH: 42 amino acids
57 (B) TYPE: Amino Acid
58 (D) TOPOLOGY: Linear
59
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
61
62 Leu Leu Leu Val Val Met Leu Leu Leu Thr Ala Arg Leu Thr Leu
63 -16 -15 -10 -5
64
65 Ser Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys
66 1 5 10
67
68 Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu
69 15 20 25 26
70
71 (2) INFORMATION FOR SEQ ID NO:2:
72
73 (i) SEQUENCE CHARACTERISTICS:
74 (A) LENGTH: 390 base pairs
75 (B) TYPE: Nucleic Acid
76 (C) STRANDEDNESS: Single
77 (D) TOPOLOGY: Linear
78
79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
80
81
82 GAATTCCCTGG AATACCAGCT GACAATGATT TCCTCCTCAT CTTTCAACCT 50
83
84 CACCTCTCCT CATCTAAGAA TTG CTC CTC GTG GTC ATG CTT 91
85 Leu Leu Leu Val Val Met Leu
86 -16 -15 -10
87
88 CTC CTA ACT GCA AGG CTA ACG CTG TCC AGC CCG GCT CCT 130
89 Leu Leu Thr Ala Arg Leu Thr Leu Ser Ser Pro Ala Pro
90 -5 1
91
92 CCT GCT TGT GAC CTC CGA GTC CTC AGT AAA CTG CTT CGT 169
93 Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg
94 5 10 15
95
96 GAC TCC CAT GTC CTT CAC AGC AGA CTG GTGA GAACTCCCAA 210
97 Asp Ser His Val Leu His Ser Arg Leu
98 20 25 26
99

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100 CATTATCCCC TTTATCCGCG TAACTGGTAA GACACCCATA CTCCCAGGAA 260
101
102 GACACCATCA CTTCCTCTAA CTCCTTGACC CAATGACTAT TCTTCCCATA 310
103
104 TTGTCCCCAC CTACTGATCA CACTCTCTGA CAAGAATTAT TCTTCACAAT 360
105
106 ACAGCCCGCA TTTAAAAGCT CTCGTCTAGA 390
107
108 (2) INFORMATION FOR SEQ ID NO:3:
109
110 (i) SEQUENCE CHARACTERISTICS:
111 (A) LENGTH: 390 base pairs
112 (B) TYPE: Nucleic Acid
113 (C) STRANDEDNESS: Single
114 (D) TOPOLOGY: Linear
115
116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
117
118
119 TCTAGACGAG AGCTTTAAA TCGGGCTGT ATTGTGAAGA ATAATTCTTG 50
120
121 TCAGAGAGTG TGATCAGTAG GTGGGGACAA TATGGGAAGA ATAGTCATTG 100
122
123 GGTCAAGGAG TTAGAGGAAG TGATGGTGTGTC TTCCTGGGAG TATGGGTGTC 150
124
125 TTACCAAGTTA CGCGGATAAAA GGGGATAATG TTGGGAGTTC TCACCAAGTCT 200
126
127 GCTGTGAAGG ACATGGGAGT CACGAAGCAG TTTACTGAGG ACTCGGAGGT 250
128
129 CACAAGCAGG AGGAGCCGGG CTGGACAGCG TTAGCCTTGC AGTTAGGAGA 300
130
131 AGCATGACCA CGAGGAGCAA TTCTTAGATG AGGAGAGGTG AGGTTGAAAG 350
132
133 ATGAGGAGGA AATCATTGTC AGCTGGTATT CCAGGAATTC 390
134
135 (2) INFORMATION FOR SEQ ID NO:4:
136
137 (i) SEQUENCE CHARACTERISTICS:
138 (A) LENGTH: 353 amino acids
139 (B) TYPE: Amino Acid
140 (D) TOPOLOGY: Linear
141
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
143
144 Met Glu Leu Thr Glu Leu Leu Leu Val Val Met Leu Leu Leu Thr
145 -21 -20 -15 -10
146
147 Ala Arg Leu Thr Leu Ser Ser Pro Ala Pro Pro Ala Cys Asp Leu
148 -5 1 5
149
150 Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser
151 10 15 20
152

RAW SEQUENCE LISTING
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153 Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val
154 25 30 35
155
156 Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln
157 40 45 50
158
159 Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu
160 55 60 65
161
162 Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr
163 70 75 80
164
165 Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu
166 85 90 95
167
168 Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro
169 100 105 110
170
171 Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu
172 115 120 125
173
174 Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu
175 130 135 140
176
177 Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr
178 145 150 155
179
180 Ala Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu
181 160 165 170
182
183 Pro Asn Arg Thr Ser Gly Leu Leu Glu Thr Asn Phe Thr Ala Ser
184 175 180 185
185
186 Ala Arg Thr Thr Gly Ser Gly Leu Leu Lys Trp Gln Gln Gly Phe
187 190 195 200
188
189 Arg Ala Lys Ile Pro Gly Leu Leu Asn Gln Thr Ser Arg Ser Leu
190 205 210 215
191
192 Asp Gln Ile Pro Gly Tyr Leu Asn Arg Ile His Glu Leu Leu Asn
193 220 225 230
194
195 Gly Thr Arg Gly Leu Phe Pro Gly Pro Ser Arg Arg Thr Leu Gly
196 235 240 245
197
198 Ala Pro Asp Ile Ser Ser Gly Thr Ser Asp Thr Gly Ser Leu Pro
199 250 255 260
200
201 Pro Asn Leu Gln Pro Gly Tyr Ser Pro Ser Pro Thr His Pro Pro
202 265 270 275
203
204 Thr Gly Gln Tyr Thr Leu Phe Pro Leu Pro Pro Thr Leu Pro Thr
205 280 285 290

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206
207 Pro Val Val Gln Leu His Pro Leu Leu Pro Asp Pro Ser Ala Pro
208 295 300 305
209
210 Thr Pro Thr Pro Thr Ser Pro Leu Leu Asn Thr Ser Tyr Thr His
211 310 315 320
212
213 Ser Gln Asn Leu Ser Gln Glu Gly
214 325 330 332
215
216 (2) INFORMATION FOR SEQ ID NO:5:
217
218 (i) SEQUENCE CHARACTERISTICS:
219 (A) LENGTH: 1798 base pairs
220 (B) TYPE: Nucleic Acid
221 (C) STRANDEDNESS: Single
222 (D) TOPOLOGY: Linear
223
224 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
225
226
227 GCGTCTTCCT ACCCATCTGC TCCCCAGAGG GCTGCCTGCT GTGCACTTGG 50
228
229 GTCCTGGAGC CCTTCTCCAC CCGGATAGAT TCCTCACCCCT TGGCCCGCCT 100
230
231 TTGCCCCACC CTACTCTGCC CAGAAGTGCA AGAGCCTAAG CCGCCTCCAT 150
232
233 GGCCCCAGGA AGGATTCAAGG GGAGAGGCC CAAACAGGGA GCCACGCCAG 200
234
235 CCAGACACCC CGGCCAGA ATG GAG CTG ACT GAA TTG CTC CTC 242
236 Met Glu Leu Thr Glu Leu Leu Leu
237 -21 -20 -15
238
239 GTG GTC ATG CTT CTC CTA ACT GCA AGG CTA ACG CTG TCC 281
240 Val Val Met Leu Leu Leu Thr Ala Arg Leu Thr Leu Ser
241 -10 -5
242
243 AGC CCG GCT CCT GCT TGT GAC CTC CGA GTC CTC AGT 320
244 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser
245 1 5 10
246
247 AAA CTG CTT CGT GAC TCC CAT GTC CTT CAC AGC AGA CTG 359
248 Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu
249 15 20 25
250
251 AGC CAG TGC CCA GAG GTT CAC CCT TTG CCT ACA CCT GTC 398
252 Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val
253 30 35
254
255 CTG CTG CCT GCT GTG GAC TTT AGC TTG GGA GAA TGG AAA 437
256 Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys
257 40 45 50
258